How much time should there be between classes?

It is important to provide an appropriate amount of time between classes. The school wants to make sure that each student can quickly and safely arrive at their next class. However, next year, the school’s population will increase from 630 to 830. Can the school’s current time between classes remain the same with this increase in population? Based on the information in the handouts, determine how much time should be allowed between classes once the high schools combine. Be able to justify your estimate of time.
**RESOURCES**

**A.**
- Every person has more than 35 sq. ft. to themselves.
- People can move freely at their own pace and avoid obstacles.
- About 7 people per minute per 1 ft. width of walkway

**B.**
- Every person has 25 to 35 sq. ft. to themselves.
- People can mostly move freely at their own pace. May encounter obstacles in bidirectional traffic.

**C.**
- Every person has 15 to 25 sq. ft. to themselves.
- People’s walking speeds and ability to avoid obstacles is restricted.
- About 10 to 15 people per minute per 1 ft. width of walkway
- Reasonably fluid flow, but there could be friction or interaction between people

**D.**
- Every person has 10 to 15 sq. ft. to themselves
- Majority of people would have their walking speeds restricted and would encounter obstacles.
- Might have momentary stoppages of flow, and people might have to weave in the crowd to make forward progress.

**E.**
- Every person has 5 to 10 sq. ft. to themselves.
- Everyone would have their walking speeds restricted to a shuffle, and people would not be able to weave through the crowd to make progress.

**F.**
- Every person would have less than 5 sq. ft. to themselves.
- Walking speeds restricted to a shuffle. Movement is sporadic and based on those at the front. Complete flow breakdown.
- Not recommended.
RESOURCE B
Mean Walking Speed v.s. Space per Person

Best fit function: \( f(x) = 81.2642 \log(2.97451x - 15.2104) + 102.024 \)

- Hallway width 6 ft
- Hallway width 7.5 ft
- Hallway width 10 ft
RESOURCE C
Probability of Obstacles v.s. Space per Person

Probability of Conflict

Space allowed per Person (sq. ft. per person)

(Fruin, 1970)
Lower Level Floor Plan
References Related to Culturally Relevant Pedagogy


